Index of Claims



Application No.

09/976,639 Examiner

Timothy J. Moran

Applicant(s)

SHOJI ET AL.

2878

| 1000 | √ | Rejected |
|------|---|----------|
|      | = | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla      | aim      | Date   |  |              |  |          |                |              |  | Claim  |   |  | Date     |          |         |              |          |   |          |              |
|----------|----------|--|--|--------------|--|----------|----------------|--------------|--|--|---|--|----------|----------|---------|--------------|----------|---|----------|--------------|
| Final    | Original | 8/16/03  |  |              |  |          |                |              |  |  |   | Final  | Original |          |         |              |          |   |          |              |
|          | 1        | ٧  |  |              |  |          |                |              |  |  |   |  | 51       |          |         |              |          |   |          |              |
|          | 2        | V  |  |              |  |          |                |              |  |  |   |  | 52       |          |         | Τ            |          |   |          |              |
|          | 3        | ٧  |  |              | L  |          |                |              |  |  |   |  | 53       |          |         |              |          |   |          |              |
|          | 4        | V  |  | L_           |  |          |                |              |  |  |   |  | 54       |          |         | $\perp$      | _        |   | L        | L            |
|          | 5        | N.   | _  |              |  |          |                |              |  |  |   |  | 55       |          | _ _     | $\perp$      | 4        |   |          | L            |
|          | 6        | ٧  | _  |              |  |          |                |              |  |  |   |  | 56       |          | 4       | $\perp$      | 4        |   |          | L            |
| ļ        | 7        | 0  |  | _            |  |          |                |              | <u> </u>   | <u> </u>   |   |  | 57       |          |         | +            | _        |   |          | L            |
|          | 8        | ٧  | _  | _            |  |          |                | ļ            |  |  |   |  | 58       | $\perp$  | -       | +            | 4        |   |          | Ļ            |
|          | 9        | 0  | _  | _            |  |          |                | <u> </u>     |  |  | ļ | <u> </u>   | 59       |          | _       | +            | 4        |   |          | L            |
| -        | 10       | ٧  | <u> </u>   |              |  | L        | _              | $\vdash$     | <u> </u>   | _  | ļ |  | 60       | +        | +       | +            | $\dashv$ | _ |          | ╀            |
|          | 11<br>12 | 0  |  |              |  | _        | _              | -            | -  |  | ļ |  | 61       |          | +-      | +            | $\dashv$ |   |          | ╀            |
| <u> </u> | 13       | 0  | <u> </u>   |              |  | -        |                | $\vdash$     |  | -  | l |  | 62<br>63 | -        |         | +            | $\dashv$ |   |          | ╀            |
| <u> </u> | 14       | 0  | $\vdash$   | -            | -  | -        | $\vdash$       |              | -  |  | 1 |  | 64       | +        | +       | +            | -        |   |          | +            |
|          | 15       | 0  |  | -            |  | $\vdash$ |                | $\vdash$     | -  |  | l |  | 65       | -+       | +       | +            | -        |   |          | ╁            |
|          | 16       | v  | $\vdash$   | $\vdash$     | H  | -        |                | -            | -  |  |   |  | 66       | $\dashv$ | +       | +            |          |   |          | t            |
|          | 17       | ├ <del>`</del>                                     | -  |              |  |          |                | $\vdash$     |  |  | ĺ |  | 67       |          | -       | +            |          |   |          | t            |
|          | 18       |  |  |              | _  | _        |                |              |  |  |   | <u> </u>   | 68       |          | $\top$  | +            |          |   |          | t            |
|          | 19       |  | -  |              |  |          |                | -            | -  | -  |   |  | 69       |          | $\top$  | $^{\dagger}$ |          |   |          | t            |
|          | 20       | <del> </del>                                       |  |              |  |          |                |              |  |  |   |  | 70       |          |         | +            |          |   |          | t            |
|          | 21       |  | _  |              |  |          |                |              |  |  |   |  | 71       |          |         | T            |          |   |          | t            |
|          | 22       | $\vdash$   |  |              |  |          |                |              |  |  |   |  | 72       |          |         | T            |          |   |          | T            |
|          | 23       |  |  |              |  |          |                |              |  | ļ .  |   |  | 73       |          |         | 1            |          |   |          | Ī            |
|          | 24       |  |  |              |  |          |                |              |  |  |   |  | 74       |          |         | 1            |          |   |          |              |
|          | 25       |  |  |              |  |          |                |              |  |  | ] |  | 75       |          |         | Ι            |          |   |          | I            |
|          | 26       |  |  |              |  |          |                |              |  |  |   |  | 76       |          |         | Ι            |          |   |          | L            |
|          | 27       |  |  |              |  |          |                |              |  |  |   |  | 77       |          |         | $\perp$      |          |   |          | L            |
|          | 28       |  |  |              |  |          |                |              |  |  |   |  | 78       |          |         |              |          |   |          | L            |
|          | 29       |  |  |              |  |          |                |              |  |  |   |  | 79       |          |         | ┵            |          |   | L        | L            |
|          | 30       | <u> </u>   |  |              |  |          |                |              | L.   |  |   |  | 80       |          | _       | 4            |          |   |          | L            |
|          | 31       |  | L  |              |  |          |                |              |  |  |   |  | 81       | $\sqcup$ | $\perp$ | 4            |          |   | _        | 1            |
|          | 32       | ļ  | _  | _            |  |          | _              | _            |  | <u> </u>   |   | <u> </u>   | 82       | $\sqcup$ | _       | 4            | _        |   | _        | ╀            |
|          | 33       | <u> </u>   | L_   | <u> </u>     |  |          |                | ļ.,          |  | ļ  |   | L  | 83       |          |         | 4            | _        |   | _        | Ļ            |
|          | 34       | <u> </u>   | _  | <u> </u>     |  |          |                |              | _  | _  |   | <b></b>  | 84       |          | $\perp$ | $\perp$      | _        |   | <u> </u> | Ļ            |
|          | 35       |  |  | $\vdash$     | <u> </u>   | <u> </u> | <u> </u>       |              | -  | <u> </u>   | - |  | 85       | $\vdash$ |         | +            | _        |   | _        | $\downarrow$ |
| <u> </u> | 36       | -  | -  | <u> </u>     | -  | <u> </u> | ⊢              |              | -  | -  | 1 |  | 86       | $\vdash$ |         | +            | $\dashv$ |   | -        | +            |
| <u> </u> | 37       | ₩  | $\vdash$   | <u> </u>     | -  | -        | -              |              | -  | -  | 1 | <u> </u>   | 87       | $\vdash$ | +       | +            | _        |   | $\vdash$ | ╀            |
|          | 38       | $\vdash$   | $\vdash$   | <del> </del> |  | -        |                | -            | _  | _  | 1 |  | 88       | $\vdash$ | +       | +            | _        |   | $\vdash$ | ł            |
| <u> </u> | 39<br>40 | +-   | -  |              | $\vdash$   | $\vdash$ | $\vdash$       | $\vdash$     | -  | -  | 1 | <del>                                     </del> | 89<br>90 | $\vdash$ | +       | +            | -        |   | $\vdash$ | +            |
| <b></b>  | 41       | $\vdash$   | -  | -            |  | -        | $\vdash$       | $\vdash$     | $\vdash$   | $\vdash$   | 1 |  | 91       | $\vdash$ | +       | +            | -        |   |          | t            |
| <u> </u> | 41       | <del> </del>                                       |  | -            | 1  | -        | -              |              |  | $\vdash$   | 1 | $\vdash$   | 92       |          | -       | +            | _        |   | $\vdash$ | t            |
| $\vdash$ | 43       | +  | $\vdash$   | $\vdash$     | -  | -        | <del>  -</del> | $\vdash$     | $\vdash$   | $\vdash$   | 1 |  | 93       | $\vdash$ | +       | +            | -        |   | $\vdash$ | t            |
| <u> </u> | 43       | <del>  -                                    </del> |  | $\vdash$     |  | 1        | ├-             | $\vdash$     | 1  | <u> </u>   | 1 |  | 94       | $\vdash$ | +       | +            |          | - |          | t            |
|          | 45       | <del>                                     </del>   | $\vdash$   | $\vdash$     | $\vdash$   | -        |                | <del> </del> | $\vdash$   |  | 1 | <b></b>  | 95       | $\vdash$ | +       | +            |          |   | $\vdash$ | t            |
|          | 46       | $\vdash$   | <del> </del>                                     |              | <del>                                     </del> | $\vdash$ | $\vdash$       | <del> </del> |  |  | 1 |  | 96       |          | +       | +            |          |   | T        | t            |
|          | 47       |  | <del>                                     </del> | 1            | $\vdash$   | T        |                | $\vdash$     | <del>                                     </del> | -  | 1 |  | 97       | -        | +-      | $\dagger$    |          |   | T        | t            |
|          | 48       |  |  | $\vdash$     | <del>                                     </del> | <b>†</b> | 1              |              | T  | <del>                                     </del> | 1 |  | 98       | $\vdash$ | -       | +            | _        |   | $\vdash$ | t            |
|          | 49       | $\vdash$   |  | $\vdash$     | t  | $\vdash$ | 1              | <u> </u>     |  |  | 1 |  | 99       |          | $\top$  | $\top$       |          |   |          | t            |
| <b> </b> | 50       | t  |  | $\vdash$     | 1  | 1        | t              | t            |  |  | 1 |  | 100      |          | $\top$  | $\dagger$    |          | Т | T        | t            |
| Щ_       | , 50     | Щ.   | ــــــــــــــــــــــــــــــــــــــ           | ٠            | 1  |          | Щ.             | ш            | ٠  | ь  | _ |  |          | ٠        |         | _            | _        |   |          | _            |

| -            |       |                |  | _            |              |          |  |          |               |  |          |
|--------------|-------|----------------|--|--------------|--------------|----------|--|----------|---------------|--|----------|
|              | Final | Original       |  |              |              |          |  |          |               |  |          |
|              | ш     |                |  |              |              |          |  |          |               |  |          |
| Γ            |       | 51             |  |              |              |          |  |          |               |  |          |
| Ī            |       | 52<br>53       |  |              |              |          |  |          |               |  |          |
| ľ            |       | 53             |  |              |              |          |  |          |               |  |          |
| T            |       | 54             |  |              |              |          |  |          |               |  |          |
| 1            |       | 55             |  |              |              |          |  |          |               |  |          |
| T            |       | 56<br>57       |  |              |              |          |  |          |               |  |          |
| r            |       | 57             |  |              |              |          |  |          |               |  |          |
| r            |       | 58             |  |              |              |          |  |          |               |  |          |
| r            |       | 59             |  |              |              |          |  |          |               |  |          |
| r            |       | 60             |  |              |              |          |  |          |               |  |          |
| Г            |       | 61             |  |              |              | Г        |  |          |               |  |          |
| r            |       | 62             |  |              |              |          |  |          |               |  |          |
| r            |       | 63             |  |              |              |          |  |          |               |  |          |
| r            |       | 64             |  | Г            |              |          |  |          |               |  |          |
|              |       | 65             |  |              |              |          |  |          |               |  |          |
| T            |       | 66             |  |              |              | $\vdash$ |  |          |               |  |          |
| r            |       | 67             |  | -            |              |          |  |          |               |  |          |
| r            |       | 68             |  |              |              |          |  |          |               |  |          |
| r            |       | 68<br>69       |  |              |              |          |  |          | $\overline{}$ |  | _        |
| h            |       | 70             |  |              | $\vdash$     | -        | _  |          |               |  |          |
| r            |       | 71             | -  | _            | _            |          |  |          |               |  |          |
| r            |       | 71<br>72<br>73 | -  | -            |              | $\vdash$ |  |          |               |  | $\vdash$ |
| r            |       | 73             |  |              | $\vdash$     | 一        |  |          | -             |  |          |
| t            |       | 74             |  | $\vdash$     | $\vdash$     |          |  |          |               |  |          |
| t            |       | 74<br>75       | $\vdash$   | $\vdash$     | $\vdash$     | _        |  |          |               |  |          |
| t            |       | 76             | ┢  |              | _            | -        |  | _        | -             | $\vdash$   |          |
| t            |       | 77             | _  |              |              |          |  |          | $\vdash$      |  |          |
| h            |       | 78             | $\vdash$   | ┢            | ╁            | $\vdash$ |  | _        |               | $\vdash$   |          |
| H            |       | 79             | -  | -            | -            |          | _  | $\vdash$ | $\vdash$      | $\vdash$   | $\vdash$ |
| 卜            |       | 80             |  | H            |              | $\vdash$ |  | -        |               | $\vdash$   | -        |
| H            |       | 81             |  | -            | -            |          |  | -        |               | $\vdash$   |          |
| r            |       | 82             | $\vdash$   | $\vdash$     | H            |          |  |          | -             | <del>                                     </del> | -        |
| H            |       | 82<br>83       |  | ┢            | ├            |          |  |          |               | $\vdash$   | $\vdash$ |
| H            |       | 84             | -  |              | -            | -        |  | _        |               | $\vdash$   |          |
| ŀ            |       | 85             |  | $\vdash$     | $\vdash$     | 1        | -  | $\vdash$ |               | -  | $\vdash$ |
| H            |       | 86             | $\vdash$   |              |              |          | $\vdash$   | $\vdash$ |               | ┢  |          |
| r            |       | 87             | $\vdash$   | -            |              |          |  |          | -             | $\vdash$   |          |
| r            |       | 88             | <del>                                     </del> | -            | $\vdash$     |          | $\vdash$   | $\vdash$ | -             | -  |          |
| h            |       | 89             | $\vdash$   |              | $\vdash$     |          |  |          |               |  |          |
| ┢            |       | 90             | ┰  | $\vdash$     | -            | $\vdash$ | -  | $\vdash$ | $\vdash$      | $\vdash$   | -        |
| +            |       | 91             | $\vdash$   |              | $\vdash$     | $\vdash$ | 1-   |          | $\vdash$      | $\vdash$   | $\vdash$ |
| ŀ            |       | 92             | $\vdash$   | +            | $\vdash$     |          | $\vdash$   | t        | $\vdash$      | <del> </del>                                     | $\vdash$ |
| $\vdash$     |       | 93             | $\vdash$   | $\vdash$     | t            | -        | -  | $\vdash$ | ┢             |  | $\vdash$ |
| ŀ            |       | 94             | $\vdash$   | $\vdash$     | $\vdash$     | -        | -  |          | $\vdash$      |  | $\vdash$ |
| ŀ            |       | 95             | $\vdash$   | $\vdash$     |              | $\vdash$ | -  | $\vdash$ |               |  | $\vdash$ |
| I            |       | 96             | -  | t            | $\vdash$     | +        | 1  | $\vdash$ | $\vdash$      | <del> </del>                                     | 1        |
| $\mathbf{l}$ |       | 97             | $\vdash$   | <del> </del> | <del> </del> | <u> </u> | <del>                                     </del> | $\vdash$ | $\vdash$      | -  | -        |
| ŀ            |       | 98             |  | -            | -            | ╁        | $\vdash$   | $\vdash$ | $\vdash$      | $\vdash$   |          |
| +            |       | 99             | -  | +            | $\vdash$     | $\vdash$ | $\vdash$   |          | -             | <del>                                     </del> | $\vdash$ |
| +            |       | 100            | -  | $\vdash$     | -            | $\vdash$ | ╁  | -        | 1             | $\vdash$   | $\vdash$ |
| - 1          |       | , 100          | 1  | 1            | 1            | 1        | 1  | 1        | 1             | 1  |          |

| Cl   | Date  |              |          |          |          |  |  |              |          |                 |  |
|--|---|--------------|----------|----------|----------|--|--|--------------|----------|-----------------|--|
| Final  | Original  |              |          |          |          |  |  |              |          |                 |  |
|  |   |              | _        |          |          |  |  |              |          |                 |  |
|  | 101   | $\vdash$     | _        | <u> </u> |          |  | -  |              |          |                 |  |
|  | 102   |              | _        | H        |          |  |  |              |          |                 |  |
|  | 103   |              |          | -        |          |  |  |              |          | -               |  |
|  | 101<br>102<br>103<br>104<br>105<br>106                                    |              | _        | $\vdash$ |          |  | _  |              |          | $\dashv$        |  |
|  | 106   |              |          |          |          | -  |  |              |          |                 |  |
|  | 107   |              | -        |          |          |  |  |              | _        |                 |  |
|  | 107<br>108  |              |          | $\vdash$ |          |  |  |              |          | $\vdash$        |  |
|  | 109   | -            | -        |          |          |  |  |              |          |                 |  |
|  | 110   |              |          |          |          |  |  |              |          |                 |  |
|  | 111   |              |          |          |          |  |  |              |          |                 |  |
|  | 112   |              |          |          |          |  |  |              |          |                 |  |
|  | 113   |              |          |          |          |  |  |              |          |                 |  |
|  | 114   |              |          |          |          | oxdot  |  |              |          | ]               |  |
|  | 109<br>110<br>111<br>112<br>113<br>114<br>115<br>116<br>117               |              | _        | ļ        | ļ        | ļ  | L.,  |              |          |                 |  |
|  | 116   |              |          | _        | <u> </u> |  |  |              |          |                 |  |
|  | 117   | <u> </u>     |          |          |          |  |  |              |          |                 |  |
|  | 118<br>119  | <u> </u>     |          | _        | <u> </u> |  |  |              |          | $\dashv$        |  |
|  | 119   | <u> </u>     |          | -        |          |  |  |              |          |                 |  |
|  | 120   | <u> </u> -   | -        |          |          | _  | _  |              |          | $\dashv$        |  |
|  | 121   |              | -        | -        |          |  |  |              |          |                 |  |
|  | 122   |              |          |          |          |  |  |              |          | $\vdash$        |  |
|  | 123   | -            | _        |          | -        |  |  |              |          | Н               |  |
|  | 125   |              | -        | <u> </u> | $\vdash$ |  |  |              |          | Н               |  |
|  | 126   |              |          | $\vdash$ |          |  |  |              |          | $\vdash$        |  |
|  | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130 | $\vdash$     |          |          | _        |  |  |              |          | $\Box$          |  |
|  | 128   | <u> </u>     |          |          |          |  |  |              | _        |                 |  |
| -  | 129   |              |          |          |          |  |  |              |          |                 |  |
|  | 130   |              |          |          |          |  |  |              |          |                 |  |
|  | 131   | _            |          |          |          |  |  |              |          |                 |  |
|  | 132   |              |          |          |          |  |  |              |          |                 |  |
|  | 133   |              |          | L        |          |  |  |              |          |                 |  |
|  | 134<br>135  | L            |          | L        |          |  |  |              |          | Ш               |  |
|  | 135   |              |          |          |          | ļ  |  |              |          |                 |  |
|  | 136   | <u> </u>     | _        | _        | _        | <u> </u>   |  | <u> </u>     | <u> </u> |                 |  |
|  | 137   | <u> </u>     | ļ        | _        | _        | -  | _  | L            | <u> </u> |                 |  |
|  | 138<br>139  |              | -        |          | <u> </u> |  | <u> </u>   | <u> </u>     |          |                 |  |
|  | 139   | <del> </del> |          | -        |          |  |  | <u> </u>     |          |                 |  |
|  | 140<br>141  | -            | $\vdash$ | ┼        |          | -  |  |              |          | $\vdash$        |  |
|  | 141   |              | -        | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$   | -            |          | $\vdash$        |  |
|  | 143   | $\vdash$     | $\vdash$ | ╁        | -        | -  | -  | <del> </del> |          | $\vdash$        |  |
|  | 144   |              | $\vdash$ | ╁        | -        | -  | <del>                                     </del> |              |          | $\vdash$        |  |
|  | 145   | -            | $\vdash$ | $\vdash$ | $\vdash$ | <del>                                     </del> |  | -            | -        |                 |  |
| <del>                                     </del> | 146   | -            | $\vdash$ | -        |          | $\vdash$   | $\vdash$   |              |          | $\vdash \vdash$ |  |
|  | 147   |              |          | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$   |              |          | H               |  |
| <b>-</b>   | 148   | $t^-$        | $\vdash$ | t        |          | $\vdash$   | $\vdash$   | -            | Ι-       |                 |  |
|  | 149   | Г            | $\vdash$ |          |          | <b> </b>   | Ι  | Γ            |          | П               |  |
|  | 150   |              |          | <b> </b> |          | <del>                                     </del> |  |              |          |                 |  |
|  |   | ٠            |          | •        | -        |  |  |              |          |                 |  |